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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/618,229	07/11/2003	Carlton G. Bale	29766-69245	4407
30450	7590 06/29/2005		EXAMINER	
CUMMINS, INC.			MILLER, CARL STUART	
11 SOUTH M	ERIDIAN	•	·	
INDIANAPOLIS, IN 46204			ART UNIT	PAPER NUMBER
,,			3747	

DATE MAILED: 06/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/618,229	BALE ET AL.				
Office Action Summary		Examiner	Art Unit				
		Carl S. Miller	3747				
Th Period for Re	e MAILING DATE of this communication app eply	pears on the cover sheet with the c	orrespondence address				
THE MAIL - Extensions after SIX (6 - If the period - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD FOR REPL'LING DATE OF THIS COMMUNICATION. of time may be available under the provisions of 37 CFR 1.1 (b) MONTHS from the mailing date of this communication. It for reply specified above is less than thirty (30) days, a reply of the thirty (30) days, a reply of the thirty (30) the thirty period very within the set or extended period for reply will, by statute exceived by the Office later than three months after the mailing ent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed ys will be considered timely. I the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)⊠ Res	ponsive to communication(s) filed on <u>07 A</u>	pril 2005.					
2a)⊠ This	This action is <b>FINAL</b> . 2b) This action is non-final.						
3)☐ Sind	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
clos	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition o	of Claims						
4)⊠ Clai	Claim(s) <u>1-26</u> is/are pending in the application.						
4a) (	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)∐ Clai	Claim(s) is/are allowed.						
6)⊠ Clai	Claim(s) 1-26 is/are rejected.						
7) <u> </u>	Claim(s) is/are objected to.						
8)∐ Clai	Claim(s) are subject to restriction and/or election requirement.						
Application F	apers						
9) <u></u> The	specification is objected to by the Examine	er.					
10) <u></u> The	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
App	licant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Rep	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) <u></u> The	oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority unde	r 35 U.S.C. § 119		·				
a) Al 1 2 3	Certified copies of the priority document Certified copies of the priority document	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)		<b></b>					
	References Cited (PTO-892) Praftsperson's Patent Drawing Review (PTO-948)	4) Ll Interview Summary Paper No(s)/Mail Da	•				
3) Information	n Disclosure Statement(s) (PTO-1449 or PTO/SB/08) s)/Mail Date		Patent Application (PTO-152)				

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all Claims 1-10 and 12-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Converse in view of McCarthy.

Converse teaches testing and engine which is stationary (since it is taken from an assembly line) and therefore the vehicle speed would necessarily be zero. An examination of applicant's specification shows that his <u>low load</u> requirement is merely a requirement that the vehicle <u>is</u> stationary and therefore does not carry the load of the vehicle weight. Thus, all of the claims including this language have been interpreted as simply requiring a non-moving engine. This does not mean, however, that the load is not increased via large throttle positions, as is the case in the testing used by Converse.

Converse tests under various load (i.e. fuel demand) conditions, while the engine remains under low loads <u>as</u> defined in applicant's specification. Idle speeds as well as high speeds are used. Converse does not describe a modern fuel injection system however but he does not exclude such a system either.

McCarthy teaches a modern injection system using an accumulator pressure sensor, vehicle speed sensor and an engine speed sensor. The system checks for leaks in various speed ranges and includes means for settling target speeds and target

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pressures. High pressures are used for higher loads and it would have been obvious not to exceed the maximum pressure of the rail (216) since this would always result system failure.

It would have been obvious to modify Converse by using the system of McCarthy to run the engine since this was the modern norm and by insuring that the engine is not moving by checking the vehicle speed sensor because Converse only tests the engine when it stationary.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Converse and McCarthy as applied to claim 1 above, and further in view of Armstrong.

Armstrong clearly uses an auxiliary computer to run tests on a stationary engine and, since this has become a common engine testing technique, it would have been obvious to one of ordinary skill in the art to apply the technique to Converse.

Applicant's arguments filed April 14, 2005 have been fully considered but they are not persuasive.

In particular, applicant's comments regarding the low load limitations he says the examiner is reading into the claims is not really relevant to the teachings of the references. The examiner merely points out that applicant's system is only under low load because the engine is not carrying the weight of the vehicle. This is also true in Converse.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carl Miller whose telephone number is (571) 272-4849. The examiner can normally be reached on MTWTHF.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Yuen, can be reached at 571-272-4856. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Carl S. Miller Primary Examins?